



*DXT Series
Thermal Expansion Absorbers*



Certified to
ANSI-NSF 61



Elbi's DXT Series Thermal Expansion Absorbers...



The DXT Series diaphragm thermal expansion tank is designed for use in domestic system installations for sanitary hot water applications. The tank is installed in systems equipped with a backflow preventor or as an add-on to direct or indirect water heaters. The tank's function is to absorb the increased volume of water which results from the heating process, thereby keeping the system's pressure below the relief valve settings.

The tanks are available in sizes from 2 to 13 gallons.

The heavy duty butyl diaphragm is designed to provide a permanent separation of the water from the air cushion. The exclusive TOP-PRO® internal coating ensures effective protection against corrosion and allows the product to be safely used in sanitary fresh water systems. The installation of a


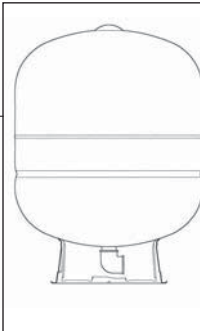
DXT tank in any of the above mentioned systems reduces the system's operating costs and prevents unnecessary relief valve operation.

FEATURES AND BENEFITS

| FEATURE | BENEFIT |
|--|---|
| <ul style="list-style-type: none">• Welded Construction• Heavy Duty Butyl Diaphragm | Adds safety to your installation. Withstands temperatures as high as 200°F. Of solid construction, manufactured in house through an injection molding process. Made of proprietary food quality Butyl compound which will not release taste or odors in the water. |
| <ul style="list-style-type: none">• Polyester powder white finish | Provides an attractive, durable appliance like finish obtained through an oven baking process of the polyester paint powder. |
| <ul style="list-style-type: none">• 40 PSI Factory Precharge on All Models | Suits most common installations. The precharge can be manually adjusted on site. |
| <ul style="list-style-type: none">• Strong Construction | Tanks are sturdy and built to last, while at the same time they are lightweight, easy to handle, and simple to install. |
| <ul style="list-style-type: none">• Protection of water inlet | Plastic insert keeps the diaphragm safe, prevents well water debris from entering the tank, and enhances the resistance of water inlet against corrosion. |
| <ul style="list-style-type: none">• TOP-PRO® Internal Lining | The exclusive TOP-PRO® internal coating provides good protection against water corrosion, yet it does not affect the taste or quality of the water. The TOP-PRO® coating is also applied at the water connection line to prevent it from premature rusting.* Moreover, the coating does not allow the diaphragm to stick to the tank shell. |

* When installed in normal environmental conditions. By normal environmental conditions it is meant environments which are free of acids, scale or chemical deposits or other factors known to affect paints, coatings and metals.

DIMENSIONAL DATA

| IN LINE MODELS | | | | | | Non NSF Certified STAND MODEL | |
|-------------------------------|-------|--------|--------|--------|--|----------------------------------|---|
| | DXT-8 | DXT-18 | DXT-24 | DXT-35 | | DXT-50 | |
| Capacity (gal.) | 2.1 | 5.0 | 6.5 | 9.2 |  | 13.0 |  |
| Acceptance Volume * | 1.25 | 3.0 | 4.2 | 5.5 | | 7.7 | |
| Connector NPT | 3/4" | 3/4" | 3/4" | 1" | | 1" | |
| Max. Working Pressure (PSIG) | 150 | 150 | 150 | 150 | | 150 | |
| Max. Working Temperature (°F) | 200 | 200 | 200 | 200 | | 200 | |
| Factory Precharge (PSIG)** | 40 | 40 | 40 | 40 | | 40 | |
| Diameter (in.) | 8 | 10 1/2 | 12 3/4 | 15 3/4 | | 15 3/4 | |
| Height (in.) | 11.75 | 15.0 | 12.0 | 15.4 | | 20.0 | |
| Weight (lbs.) | 6.34 | 11.50 | 13.72 | 21.82 | | 27.16 | |

*at 40 PSI

** Factory precharge can be affected by variations in environmental conditions (ex. temperature changes) and systems conditions (ex. pressure changes). Product should be carefully inspected upon receipt and all charges should be adjusted to fit your particular system installation.

DXT THERMAL EXPANSION TANKS - QUICK SELECTION TABLE

| | | ENDING TEMPERATURE | | | | | | |
|---------------------|---------------------------|--------------------|--------|--------|--------|--------|--------|--------|
| System Content gal. | Max. Desired press.(PSIG) | 110°F | 120°F | 130°F | 140°F | 150°F | 160°F | 170°F |
| 30 | 90 | DXT-8 | DXT-8 | DXT-8 | DXT-8 | DXT-8 | DXT-8 | DXT-8 |
| | 100 | DXT-8 | DXT-8 | DXT-8 | DXT-8 | DXT-8 | DXT-8 | DXT-8 |
| | 120 | DXT-8 | DXT-8 | DXT-8 | DXT-8 | DXT-8 | DXT-8 | DXT-8 |
| 40 | 90 | DXT-8 | DXT-8 | DXT-8 | DXT-8 | DXT-8 | DXT-8 | DXT-8 |
| | 100 | DXT-8 | DXT-8 | DXT-8 | DXT-8 | DXT-8 | DXT-8 | DXT-8 |
| | 120 | DXT-8 | DXT-8 | DXT-8 | DXT-8 | DXT-8 | DXT-8 | DXT-8 |
| 50 | 90 | DXT-8 | DXT-8 | DXT-8 | DXT-8 | DXT-8 | DXT-18 | DXT-18 |
| | 100 | DXT-8 | DXT-8 | DXT-8 | DXT-8 | DXT-8 | DXT-8 | DXT-18 |
| | 120 | DXT-8 | DXT-8 | DXT-8 | DXT-8 | DXT-8 | DXT-8 | DXT-8 |
| 75 | 90 | DXT-8 | DXT-8 | DXT-8 | DXT-18 | DXT-18 | DXT-18 | DXT-18 |
| | 100 | DXT-8 | DXT-8 | DXT-8 | DXT-18 | DXT-18 | DXT-18 | DXT-18 |
| | 120 | DXT-8 | DXT-8 | DXT-8 | DXT-8 | DXT-18 | DXT-18 | DXT-18 |
| 100 | 90 | DXT-8 | DXT-18 | DXT-18 | DXT-18 | DXT-18 | DXT-18 | DXT-24 |
| | 100 | DXT-8 | DXT-18 | DXT-18 | DXT-18 | DXT-18 | DXT-18 | DXT-18 |
| | 120 | DXT-8 | DXT-8 | DXT-18 | DXT-18 | DXT-18 | DXT-18 | DXT-18 |
| 120 | 90 | DXT-18 | DXT-18 | DXT-18 | DXT-18 | DXT-18 | DXT-24 | DXT-24 |
| | 100 | DXT-8 | DXT-18 | DXT-18 | DXT-18 | DXT-18 | DXT-24 | DXT-24 |
| | 120 | DXT-8 | DXT-18 | DXT-18 | DXT-18 | DXT-18 | DXT-18 | DXT-24 |
| 250 | 90 | DXT-18 | DXT-24 | DXT-35 | DXT-35 | DXT-50 | DXT-50 | DXT-50 |
| | 100 | DXT-18 | DXT-24 | DXT-35 | DXT-35 | DXT-35 | DXT-50 | DXT-50 |
| | 120 | DXT-18 | DXT-18 | DXT-24 | DXT-35 | DXT-35 | DXT-35 | DXT-50 |

For supplying minimum pressure 45-50 psig - Thermal Expansion Absorber must be precharged to 40 psig - For relief valve setting: 125 psig - use 100 psig minimum pressure, 150 psig - use 120 psig minimum pressure; Initial temperature 60° F

MAINTENANCE

It is recommended that a periodic maintenance inspection of the complete heating system be performed by a professional licensed plumber. The inspection must be done at least once per year and, during such check, the tank's precharge should be tested and adjusted to the correct pressure if necessary. Failure to perform periodic maintenance will void all warranty.

We strongly recommend the use of dielectric union when connecting dissimilar metals.

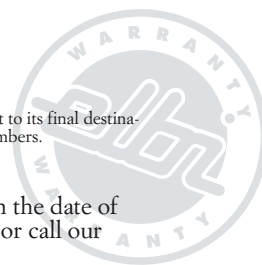
PACKAGING AND SHIPPING DATA

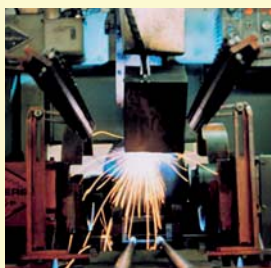
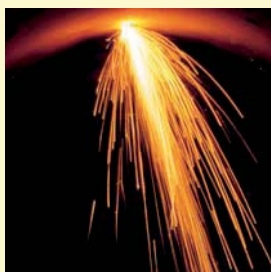
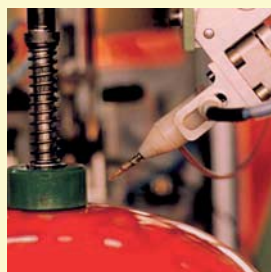
| Model Number | Packaging Dimensions (in.) | Volume (cu.ft.) | Quantity* per Pallet |
|--------------|----------------------------|-----------------|----------------------|
| DXT-8 | 8-5/16 x 8-5/16 x 12-5/8 | 0.48 | 162 |
| DXT-18 | 10-7/8 x 10-7/8 x 16-7/8 | 1.15 | 70 |
| DXT-24 | 10-7/8 x 10-7/8 x 18-7/8 | 1.40 | 70 |
| DXT-35 | 16-1/4 x 16-1/4 x 16-1/4 | 1.40 | 33 |
| DXT-50 | 15-7/8 x 15-7/8 x 23-3/8 | 3.71 | 33 |

*Quantity per pallet may vary depending on the size of the pallets and the limitations presented by the means of transportation used when shipping out the product to its final destination. In case there are differences between the quantities per pallet listed here and the actual quantity per pallet loaded, you will be contacted by one of our staff members.

WARRANTY

Elbi's DXT Series tanks are guaranteed to be free of workmanship or material defects for a period of five (5) years from the date of manufacturing. For a complete description of our warranty policy consult the literature which comes with the product or call our offices to request a copy.





Who We Are...

Elbi has over 30 years of experience in tank manufacturing and a worldwide reputation for quality, offering an extensive line of products which satisfy the taste and exigency of all modern installations in water distribution, water storage, water heating and water treatment systems. We are represented in all major world markets either by a network of authorized distributors or by direct presence. Our widespread presence ensures that our lines of products always keep up with all technological advances.

Our most valuable assets are experience and reputation. We take pride in equipping our plants with the most modern production equipment including robotic systems, CAD/CAM machines and automatic welding and assembly systems.

Product design is handled by our internal development team, our testing facilities and quality control services which ensures that you get a quality product from design to installation. All of the components are manufactured in house to ensure total control of the manufacturing process, this includes our butyl diaphragm.

Our manufacturing plant, located in Houston TX, started operations in 1990 and since 2000 has become fully operational. Another plant located in northern Italy is dedicated to the manufacturing of our diaphragms and bladders through modern injection molding processes, and holds the quality control of these critical components in-house.



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